### Input to Agent after idea generation and validation step

#### **{Refined Problem Statement}**

#### For example : The central government of Bulgaria has multiple citizen benefiaciary schemes, but the citizens have no way to know about them. Access to citizen phone numbers does not exist. Billions in goverment aid is lost every year.

#### Citizen Awareness and Access to Government Beneficiary Schemes in Bulgaria

### Now to create the scope of work document we create a Agent with a role, Goal, Backstory and is assigned a task which has an expected output. Assumption : We have kept the expdcted output to be open eneded to be inspired by sources it finds using web search tools or limitng search to certain websites. This framework uses chain of thought reasoning, which means at each point of gathering external data, and analysing its contents it takes decisions much like a human would.

**Task:**

**Description**

Write a detailed scope of work documentation that gives technology centered solution for:

**{problem\_statement}**

A detailed scope of work document with well formatted sections take inspiration from government projects that have worked in the past across geographies. Give these as citations in the scope of work document.

Agent:

**Role**: Provide best technology based solution based on problem statement

**Goal** : Provide clear overview of how the problem will be solved.

**Backstory**: You are an expert technology consultant that gives advisory on technology solutions to problems faced by governments.

**Expected Output:**

A detailed scope of work document with well formatted sections take inspiration from government projects

that have worked in the past across geographies. Give these as citations in the scope of work document. Create sections based on how other scope of work documents are built for similar problem statements

Chain of thought and Action:

**Thought**: To provide a comprehensive and well-informed scope of work document, I need to gather information on similar government projects that have successfully implemented technology solutions to disseminate information about citizen beneficiary schemes.

Specifically, I will look for case studies or reports on how other governments have addressed similar issues. I will start by searching for relevant projects on government websites or portals that document these initiatives.

**Action**: Search in a specific website Action Input: {"search\_query": "successful government projects for citizen beneficiary schemes information dissemination", "website": "https://www.worldbank.org"}

OUTPUT ON NEXT PAGE

### Scope of Work Document

#### Title: Enhancing Citizen Awareness and Access to Government Beneficiary Schemes in Bulgaria

#### 1. Introduction

The Central Government of Bulgaria has instituted multiple beneficiary schemes aimed at improving the welfare of its citizens. However, a significant challenge exists in ensuring that citizens are aware of these schemes and can access them easily. The lack of a centralized communication framework results in billions of government aid being unutilized every year. This document outlines a comprehensive technology-based solution to address this issue.

#### 2. Objectives

* **Increase Awareness:** Ensure that all citizens are aware of the various beneficiary schemes available to them.
* **Improve Access:** Develop a streamlined process for citizens to easily access information and apply for beneficiary schemes.
* **Efficient Communication:** Establish a robust communication framework to disseminate information effectively.

#### 3. Project Scope

##### 3.1 Development of a Centralized Information Portal

* **Requirement:** A user-friendly, multilingual online portal that provides detailed information on all government beneficiary schemes.
* **Features:**
  + **Search Functionality:** Allow citizens to search for schemes based on their eligibility criteria.
  + **Application Tracking:** Enable users to track the status of their applications.
  + **Notification System:** Send alerts and updates to citizens regarding new schemes and changes in existing ones.

##### 3.2 Mobile Application

* **Requirement:** A mobile application compatible with Android and iOS platforms to provide easy access to scheme information.
* **Features:**
  + **Push Notifications:** Instant alerts about new schemes and application deadlines.
  + **Offline Access:** Basic scheme information available without internet connection.
  + **User Authentication:** Secure login to protect user data and application status.

##### 3.3 SMS and IVR System

* **Requirement:** Implement an SMS and Interactive Voice Response (IVR) system to reach citizens without internet access.
* **Features:**
  + **SMS Alerts:** Regular updates and reminders about schemes.
  + **IVR Services:** 24/7 helpline for scheme information and application assistance in multiple languages.

#### 4. Implementation Plan

##### 4.1 Phase 1: Planning and Design

* **Duration:** 3 Months
* **Activities:**
  + Requirement gathering and stakeholder meetings.
  + Design of the portal, mobile application, and SMS/IVR systems.
  + Drafting the project plan and timeline.

##### 4.2 Phase 2: Development

* **Duration:** 6 Months
* **Activities:**
  + Development of the centralized information portal.
  + Mobile application development for Android and iOS.
  + Integration of SMS and IVR systems.
  + Rigorous testing and quality assurance.

##### 4.3 Phase 3: Deployment and Training

* **Duration:** 2 Months
* **Activities:**
  + Deployment of the portal and mobile application.
  + Training government officials and staff.
  + Public awareness campaigns to educate citizens on the new systems.

##### 4.4 Phase 4: Monitoring and Evaluation

* **Duration:** Ongoing
* **Activities:**
  + Regular monitoring of system performance.
  + Feedback collection from citizens and stakeholders.
  + Continuous improvement based on feedback and technological advancements.

#### 5. Budget and Resources

* **Estimated Budget:** $5 Million
* **Resource Allocation:**
  + Development Team: Software developers, UI/UX designers, QA testers.
  + Communication Team: Content creators, translators, public relations experts.
  + Support Team: Customer service representatives for the helpline and support.

#### 6. Risk Management

* **Risk:** Low adoption rate by citizens.
  + **Mitigation:** Extensive public awareness campaigns and user training.
* **Risk:** Technical issues and downtime.
  + **Mitigation:** Regular maintenance and 24/7 technical support.

#### 7. Citations and References

* **Inspiration from Government Projects:**
  + **India’s Direct Benefit Transfer (DBT) System:** Successfully streamlined subsidies and benefits distribution through a centralized portal and mobile applications.
  + **Kenya’s Huduma Centres:** Implemented a one-stop-shop model for accessing government services, significantly improving citizen engagement and service delivery.
  + **Estonia’s E-Government System:** Pioneered digital governance, ensuring efficient communication and service delivery to citizens.

#### 8. Conclusion

The proposed technology-based solution will significantly enhance the awareness and accessibility of government beneficiary schemes in Bulgaria. By leveraging a centralized information portal, mobile applications, and SMS/IVR systems, the government can ensure efficient communication and distribution of benefits to its citizens.

This scope of work document provides a clear and structured approach to addressing the current challenges faced by the Central Government of Bulgaria in disseminating information about citizen beneficiary schemes.

Input to Agent after scope of work document has been created

#### **{scope of work}**

### Now to create the **solution** document we create an Agent with a role, Goal, Backstory and is assigned a task which has an expected output. Assumption : We have kept the expected output to be open ended to be inspired by sources it finds using web search tools or limitng search to certain websites. This framework uses chain of thought reasoning, which means at each point of gathering external data, and analysing its contents it takes decisions much like a human would.

**Task:**

**Description**

Write a solution document that gives both high level and low level implementation plan given the scope of work document:   
**{input\_sow}**

You should see how implementations from the citations in **{input\_sow}** were done and draw inspiration.

Draw a system architecture focussing on a high level modules and low level modules

**{scope\_of\_work}**

A detailed scope of work document with well formatted sections take inspiration from government projects that have worked in the past across geographies. Give these as citations in the scope of work document.

**Agent:**  
**Role**=Solution architect & Chief technology officer  
**Goal**=Provide a clear high level and low level details on technology implementation  
**Backstory**: you are an expert solution architect that takes a scope of work document to detailed solution document for government projects.

**Role**: Provide best technology based solution based on problem statement

**Goal**: Provide clear overview of how the problem will be solved.

**Backstory**: You are an expert technology consultant that gives advisory on technology solutions to problems faced by governments.

**Expected Output:**

A detailed scA detailed solution document with well formatted sections like high level technology design, implementation plan,   
 Use technical resources to draw system architecture diagram for each module needed to implement sultion at scale.   
 Also give details on technology decisions, resources required and other sections you think a solution document should have.   
 Make sure to elabotate each section so that it is self explanatory to someone who wants to implement this solution

that have worked in the past across geographies. Give these as citations in the scope of work document. Create sections based on how other scope of work documents are built for similar problem statements

Chain of thought and Action:

**Thought**: To provide a comprehensive and well-informed scope of work document, I need to gather information on similar government projects that have successfully implemented technology solutions to disseminate information about citizen beneficiary schemes.

Specifically, I will look for case studies or reports on how other governments have addressed similar issues. I will start by searching for relevant projects on government websites or portals that document these initiatives.

**Action**: Search in a specific website Action Input: {"search\_query": "successful government projects for citizen beneficiary schemes information dissemination", "website": "https://www.worldbank.org"}

|  |
| --- |
| Task: |
| Expected Output |

OUTPUT ON NEXT PAGEi

|  |
| --- |
|  |
|  |
|  |